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RESERVE

Water Supply Outlook For Nevada



SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

NEVADA DEPARTMENT of CONSERVATION
AND NATURAL RESOURCES
DIVISION OF WATER RESOURCES

AS OF
May 1, 1982

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

*COVER PHOTO: LONE CONE, NEAR NORWOOD, COLORADO, BLANKETED BY
ITS WINTER MANTLE OF SNOW.*

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



WATER SUPPLY OUTLOOK FOR NEVADA

**and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS**

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LIST OF COOPERATORS	Inside Back Cover

All averages are for 1963-77 period.

WATER SUPPLY OUTLOOK
FOR NEVADA

* STREAMFLOWS THROUGHOUT THE STATE ARE FORECAST AS EXCELLENT DUE TO THE *
* LARGE SNOWPACK THAT ACCUMULATED THE PAST WINTER. SNOWPACK MEASUREMENTS *
* ARE ABOVE AVERAGE RANGING FROM 137 PERCENT OF AVERAGE IN THE TAHOE BASIN *
* TO 163 PERCENT OF AVERAGE IN THE HUMBOLDT BASIN. RESERVOIR STORAGE IS *
* 111 PERCENT OF AVERAGE. LAKE TAHOE INCREASED 98,000 ACRE FEET DURING *
* APRIL.
*

SIERRA EAST SLOPE

The storm that occurred at the beginning of April has brought an increase in forecasts all along the Sierra. Snowpack figures for May generally reflect what remains of the snowpack but this year many of the high elevation sites show increases. Around Lake Tahoe, and in the Truckee Basin, Rubicon #2, Ward Creek #2, and Independence Lake all showed increases during the month. Ward Creek #2 had the greatest increase at 6.7 inches of water content.

In the Carson and Walker Basins, Ebbetts Pass, Wet Meadows, and Leavitt Lake had increased water contents. Leavitt Lake increased from 82.8 inches water content to 89.4 inches water content. Most of the remaining snow courses have begun the spring melt. Snow courses below 6,500 feet have completely melted while most mid-elevation courses had 3 and 6 inches of snow melt. The high elevation courses have generally melted less than five inches.

May 1 snowpack comparisons indicate Tahoe Basin is 137 percent of average, the Truckee Basin is 147 percent of average, the Carson River is 160 percent of average, and the Walker Basin is 159 percent of average.

Streamflow forecasts have changed dramatically from those published on April 1 due to the snow storm which ended April 9. The Lake Tahoe Rise forecast was 2.0 feet on April 1 and has now been increased to a 2.8 foot rise. Lake Tahoe rose .47 feet from April 1 through April 31. This rise, coupled with a release of 40,000 acre feet to make room for expected snowmelt runoff, represent an actual Lake rise of .8 of a foot for the month of April. The .8 of a foot rise, for April, is 575 percent of average.

The Truckee River at Farad has changed substantially, increasing from an April 1 projection of 380,000 to 515,000 acre feet. The April streamflow was approximately 132,000 acre feet, at Farad, leaving 383,000 acre feet of flow to occur between May 1 and July 31. The 515,000 acre foot projection will be the eighth highest since 1906.

Reservoir storage in the Tahoe, Truckee, and Carson Basins is 116 percent of average. The Walker Basin is 85 percent of average. Reservoir storage was reduced to allow room for the above average flows expected from snowmelt.

HUMBOLDT BASIN

The snow measurements taken May 1 indicate an excellent snowpack in the Humboldt Basin. The Humboldt is currently 163 percent of average.

Streamflow forecasts have not changed on the Humboldt over last month. Storms, after the first of April which had such a great impact in the Sierra, did not have much influence on the Humboldt. Precipitation received in the Humboldt was minimal after April 3rd. Forecasts range from 138 percent of average on S. Fork Humboldt to 167 percent of average on Martin Creek.

Rye Patch Reservoir is currently 84 percent of average and represents an increase of ten percent over last month. Rye Patch increased 17,000 acre feet during the month of April which is 567 percent of average.

OWYHEE AND SNAKE BASINS

The snowpack in Northeastern Nevada is excellent at 155 percent of average and 391 percent of last year. Melt has started over most of the area. The low elevation snow courses have generally melted out while mid-elevation courses are about fifty percent melted. The high elevation courses have much less melt, usually less than ten percent of its maximum accumulation. Jack's Peak had a water content of 39.4 inches which was 2.4 inches above last month. Jack's Peak is a high elevation snow course on the upper Owyhee.

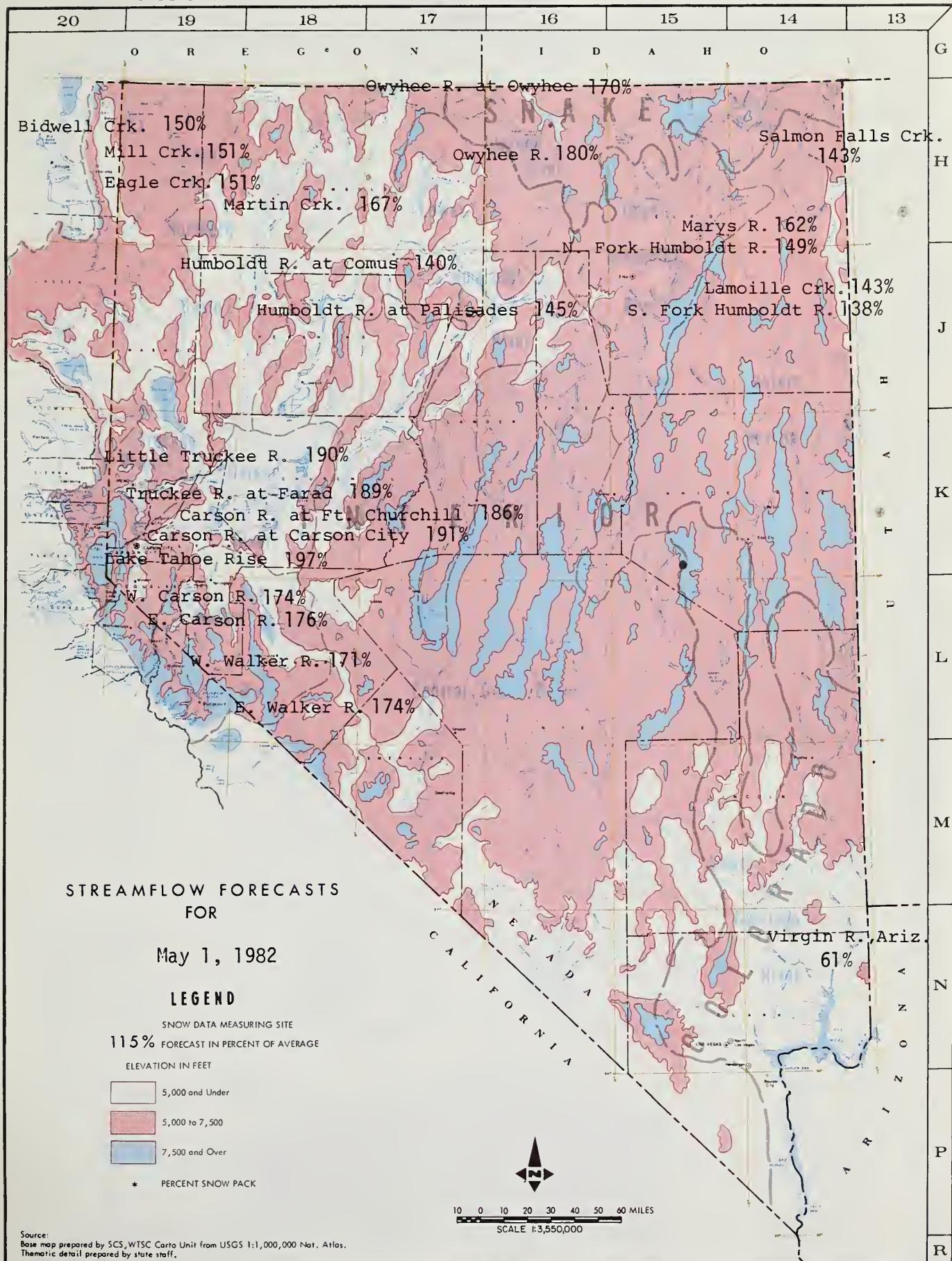
Wild Horse Reservoir storage increased dramatically from April 1. Its contents is currently 64,000 acre feet, an increase of 25,000 acre feet. The 25,000 acre foot increase in April is due to melt on the Basin that began about April 11.

SURPRISE VALLEY

Cedar Pass Has an 89 percent of average snowpack and is 647 percent of last years.

Streamflows in the Surprise Valley are forecast at about 150 percent of average. Fall precipitation saturated the soils in the Warner Mountains resulting in the excellent water supply season projected.

PROSPECTIVE WATER SUPPLY FOR NEVADA



INDEX TO NEVADA SNOW COURSES (By Basins)

Refer to the map on the preceding page for Snow Course locations.

NUMBER	NAME	SEC.	TWP.	RGE.	ELEV.
S N A K E R I V E R B A S I N					
S N A K E R I V E R					
15H015A	Bear Creek	31	46N	58E	7800
15H02	Fox Creek	33	46N	58E	6800
15H135A	Goat Creek	31	46N	60E	8800
15H15A	Hummingbird Springs	6	45N	60E	8945
15H20a	Merritt Mountain	10	46N	54E	7000
15H145	Pole Creek Ranger Station	13	46N	59E	8330
15H18a	Red Point	15	47N	61E	7940
15H035A	Seventy Five Creek	6	44N	58E	7100
15H19a	5 fta Mountain	32	41N	58E	7800

SNAKE RIVER BASIN

OWYHEE RIVER						
15H045	Big Bend	30	45N	56E	6700	
15H06a	Columbia Basin	31	44N	53E	6650	
16H08a	Fawn Creek	2	45N	52E	7000	
16H105	Fawn Creek #2	2	45N	52E	7050	
15H05	Gold Creek	32	45N	56E	6600	
16H01	Jack Creek, Lower	18	42N	53E	6800	
16H02A	Jack Creek, Upper	9	42N	53E	7250	
16H095	Jack Creek #2, Upper	9	42N	53E	7250	
16H045	Jacks Peak	21	42N	53E	8420	
16H055	Laurel Draw	20	45N	53E	6700	
17G04a	Louse Canyon (OR)	27	40S	44E	6440	
15H095	Taylor Canyon	35	39N	53E	6200	

INTERIOR

UPPER HUMBOLDT RIVER

15J17a	American Beauty	32	31N	58E	7800
15J125A	Corral Canyon	27	28N	57E	8500
15J015	Corsey Basin	28	35N	60E	8100
15J03	Dry Creek	5	34N	60E	6500
15H07P	Fry Canyon	31	43N	54E	6790
15J095	Green Mountain	23	29N	57E	8000
15J10	Harrison Pass #1	9	28N	57E	6600
15J11	Harrison Pass #2	16	28N	57E	7400
15J04	Lamoille #1	15	32N	58E	7100
15J065	Lamoille #3	24	32N	58E	7700
15J08	Lamoille #5	31	32N	59E	8700
15J20	Pole Canyon #2	6	34N	61E	7700
15J16a	Robinson Lake	23	33N	59E	9200
15H06P	Rodeo Flat	36	43N	53E	6800
15J02	Ryan Ranch	1	34N	59E	5800
15J19	Smith Creek	26	30N	57E	7600
15J22a	Tent Mountain, Lower	26	36N	60E	7000
15J23a	Tent Mountain, Upper	35	36N	60E	8350
15H08	Tremewian Ranch	9	39N	55E	5700
15H10P	Trout Creek, Lower	28	37N	61E	6900
15H11a	Trout Creek, Upper	4	36N	61E	8500

LOWER HUMBOLDT RIVER

Lower No. 10000	Review	10	17N	43E	6600
17K01	Big Creek Campground	10	17N	43E	6600
17K02	Big Creek Mine	23	17N	43E	7600
17K045	Big Creek Summit	35	17N	43E	8700
17K03	Big Creek, Upper	26	17N	43N	7800
17H02A5	Buckskin, Lower	25	45N	39E	6700
17H01A	Buckskin, Upper	11	45N	39E	8200
17L01	Corral, Lower	12	11N	40E	7500
17L02	Corral, Upper	20	11N	41E	8900
17J02	Golconda #2	22	35N	39E	6000
17H045A	Granite Peak	22	44N	39E	7800
17H055A	Lamance Creek	13	42N	38E	6000
17H03AP	Martin Creek	13	44N	38E	6700
16H03AP	Midas	18	39N	46E	7200
16H03AP	T-1	20	42N	50E	7200

EASTERN NEVADA

EASTERN NEVADA						
14L01	Baker #1	29	13N	69E	7950	
14L02	Baker #2	30	13N	69E	8950	
14L03	Baker #3	25	13N	68E	9250	
14K025A	Berry Creek	26	17N	65E	9100	
14K01	Bird Creek	34	19N	65E	7500	
14K09a	Ofiante Mines	9	14N	63N	9200	
15J155A	Hole-in-Mountain	6	35N	61E	7900	
14K08	Kalamazoo Creek	34	20N	65E	7400	
14K03	Murray Summit	25	16N	62E	7250	
15K01	Robinson Summit	34	18N	61E	7600	
14K07	Silver Creek #2	30	16N	69E	8000	
14K055A	Ward Mountain #2	25	15N	62E	9200	

CENTRAL GREAT BASIN

CENTRAL GREAT BASIN					
18M02	Campito Mountain (CA)	19	55	35E	10200
18M05a	Chiavotchi Flat (CA)	32	25	34E	10500
15N02	Clark Canyon	8	195	55E	9700
18M01	Montgomery Pass	4	1N	33E	7100
18M03a	Pinchot Creek (CA)	28	1N	33E	9300
18M04a	Piute Pass (CA)	33	45	33E	11700
15N01	Trough Springs	23	185	55E	8500

NORTHERN GREAT BASIN

19H01a	Bald Mountain	17	45N	21E	6720
20H05	Barber Creek (CA)	23	39N	16E	6500
20H065	Cedar Pass (CA)	12	43N	14E	7190
18G06a	Oenio Creek (OR)	14	41S	34E	6090
18H015a	Disaster Peak	8	47N	34E	6500
20H03a	Oismal Swamp (CA)	31	48N	17E	7000
20H115	Oismal Swamp #2 (CA)	31	48N	17E	7050
20H07	Eagle Peak (CA)	35	40N	15E	7200
19H03P	49 Mountain	7	42N	19E	6000
19H02	Hays Canyon	1	39N	18E	6400
19H04a	Little Bally Mountain	8	45N	19E	6000
20H09P	Mt. Bidwell (CA)	6	47N	16E	7200
20H10	North Star (CA)	13	47N	16E	6200
17G05a	Oregon Canyon (OR)	9	40S	40E	7240
17H06a	Quinn Ridge	9	47N	41E	6300
20H04	Reservation Creek (CA)	12	46N	15E	5990
18G05a	Trout Creek (OR)	10	41S	38E	7800

NUMBER	NAME	SEC.	TWP.	RGE.	ELEV.
LAKE TAHOE					
20L065	Echo Peak (CA)	35	12N	17E	7800
20L05	Echo Summit (CA)	6	11N	18E	7450
20L105	Fallen Leaf (CA)	3	13N	17E	5300
19L02	Freel Bench (CA)	36	12N	18E	7300
19K06	Glenbrook #2	13	14N	18E	6900
19L035	Hagan's Meadow (CA)	36	12N	18E	8000
19L245	Heavenly Valley (CA)	1	12N	18E	8850
20L04	Lake Lucille (CA)	28	12N	17E	8200
19K045	Marlette Lake	18	15N	19E	8900
20L03	Richardsons #2 (CA)	6	12N	18E	6500
20L01	Rubicon #1 (CA)	6	13N	17E	8100
20L025	Rubicon #2 (CA)	6	13N	17E	7500
20K16	Tahoe City (CA)	6	15N	17E	6250
20K275	Tahoe City Cross (CA)	1	15N	16E	6750
19L01	Upper Truckee (CA)	21	12N	18E	6400
20K17	Ward Creek #2 (CA)	21	15N	16E	7000
20K255	Ward Creek #3 (CA)	21	15N	16E	6750
TRUCKEE RIVER					
20K14	Boca #2 (CA)	28	18N	17E	5900
20K22	Brookway Summit (CA)	3	17N	16E	7100
20K28	Castle Creek (CA)	23	17N	14E	7400
20K21	Donner Park #2 (CA)	18	17N	16E	6000
20K10	Donner Summit (CA)	25	17N	14E	6900
20K07*	Fordyce Lake (CA)	34	18N	13E	6500
20K08*	Furnace Flat (CA)	10	17N	13E	6700
20K045	Independence Camp (CA)	34	19N	15E	7000
20K035	Independence Creek (CA)	14	19N	15E	6500
20K055	Independence Lake (CA)	9	18N	15E	8450
19K03	Little Valley	17	16N	19E	6300
20K025	Mt. Rose	7	17N	19E	9000
19K075	Mt. Rose 5ki Area	30	17N	19E	9000
20K06	Sage Hen Creek (CA)	7	18N	16E	6500
20K19	Squaw Valley #2 (CA)	6	15N	16E	7500
20K305	Squaw Valley Gold Coast (CA)	36	16N	15E	8200
20K135	Truckee #2 (CA)	22	17N	16E	6400
20K02*	Webber Lake (CA)	29	19N	14E	7000
20K01*	Webber Peak (CA)	30	19N	14E	8000
CARSON RIVER					
19L055	Blue Lakes (CA)	30	9N	19E	8000
19L04	Carson Pass, Upper (CA)	22	10N	18E	8600
19K05	Clear Creek	6	14N	19E	7300
19L19A	Ebbets Pass (CA)	17	8N	20E	8700
19L325	Ebbets Pass #2 (CA)	17	8N	20E	8700
19L16a	Fish Valley, Upper (CA)	1	7N	22E	8050
19L40A	Monitor Pass (CA)	31	9N	21E	8350
19L16a	Fish Valley, Upper (CA)	1	7N	22E	8050
19L065A	Poison Flat (CA)	25	8N	21E	7900
19L395	Spratt Creek (CA)	31	10N	20E	6100
19L315	Wet Meadows #2 (CA)	26	9N	19E	8100
19L18a	Wet Meadows Lake (CA)	26	9N	19E	8050
19L20a	Wolf Creek (CA)	35	8N	20E	8000
WALKER RIVER					
19L11	Buckeye Forks (CA)	20	4N	23E	8500
19L10	Buckeye Roughs (CA)	15	4N	23E	7900
19L12	Center Mountain (CA)	4	3N	23E	9400
19L30A	Center Mountain (CA)	4	3N	23E	9400
19L085	Leavitt Lake (CA)	13	5N	21E	9400
19L33	Leavitt Meadows (CA)	4	5N	22E	7200
19L175A	Lobdell Lake (CA)	20	7N	24E	9200
19L34	Sawmill Ridge (CA)	17	3N	24E	8750
19L07	Sonora Pass (CA)	1	5N	21E	8800
19L235	Sonora Pass Bridge (CA)	6	5N	22E	8800
19M01*	Tioga Pass (CA)	30	1N	25E	9900
19L13	Virginia Lakes (CA)	5	2N	25E	9500
19L225	Virginia Lakes Ridge (CA)	32	2N	25E	9200
19L09	Willow Flat (CA)	21	5N	23E	8250
COLORADO					
LOWER COLORADO RIVER					
15L02a	Corduroy Flat	14	13N	58E	8720
14M04a	Ella Mountain	35	55	67E	7050
15N05	Kyle Canyon	26	195	56E	8200
15N03	Lee Canyon #2	9	195	56E	9000
15N08	Lee Canyon #3	10	195	56E	8500
14M0ia	Mathew Canyon	10	55	70E	6000
14L04a	Mt. Wilson	27	5N	68E	8050
14M02a	Pine Canyon	23	65	69E	6200
15N07	Rainbow Canyon #2	6	205	57E	8100
15L01	White River #1	31	13N	59E	7400
15L03a	White River	31	13N	59E	7440
LEGEND					
NUMBERING SYSTEM (EXAMPLE)					
19K04	Snow Course Only				
19K045	Snow Course with SNOTEL				
19K04A	Snow Course and Aerial Marker				
19K04P	Snow Course and Storage Precipitation Gage				
<i>Lower case letter "a" indicates no snow course, only an Aerial Marker. SNOTEL has telemetered data for snow pillow, precipitation gage, and temperature. * Adjacent basin.</i>					

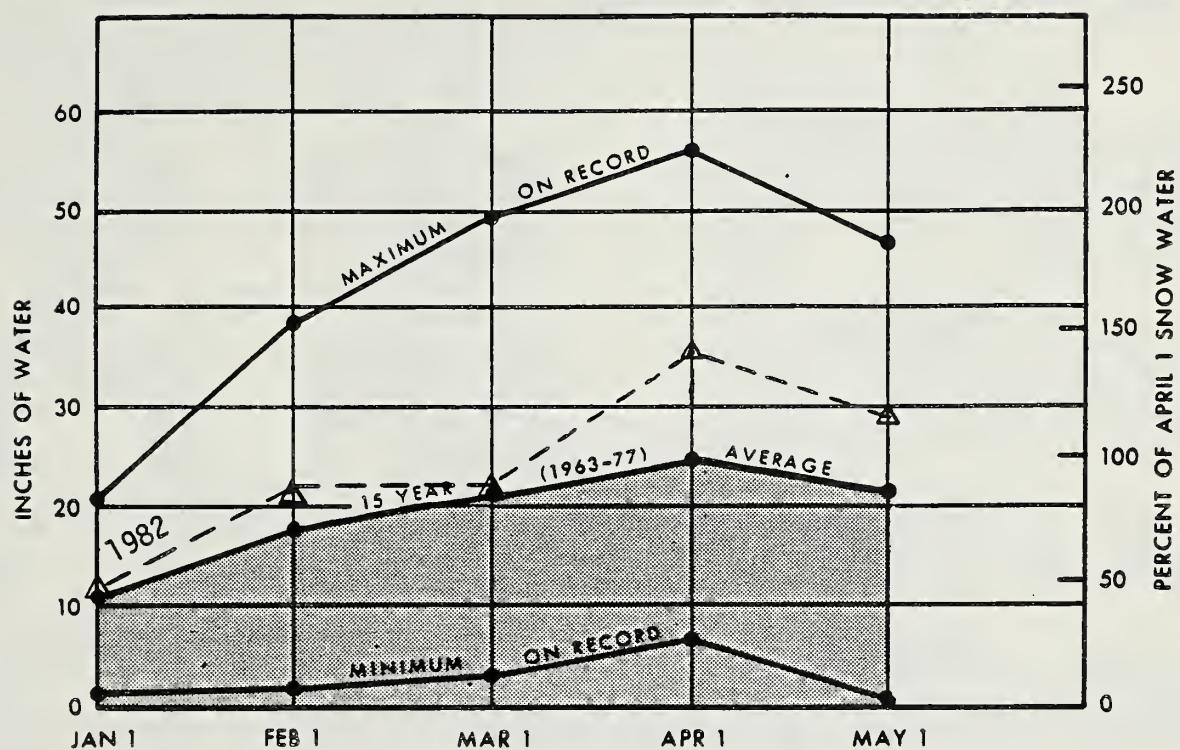
NUMBERING SYSTEM (EXAMPLE)

19K04 Snow Course Only
19K045 Snow Course with SNOTEL
19K04A Snow Course and Aerial Marker
19K04P Snow Course and Storage Precipitation Gage

Lower case letter "a" indicates no snow course, only an Aerial Marker. SNOTEL has telemetered data for snow pillow, precipitation gage, and temperature. * Adjacent basin.

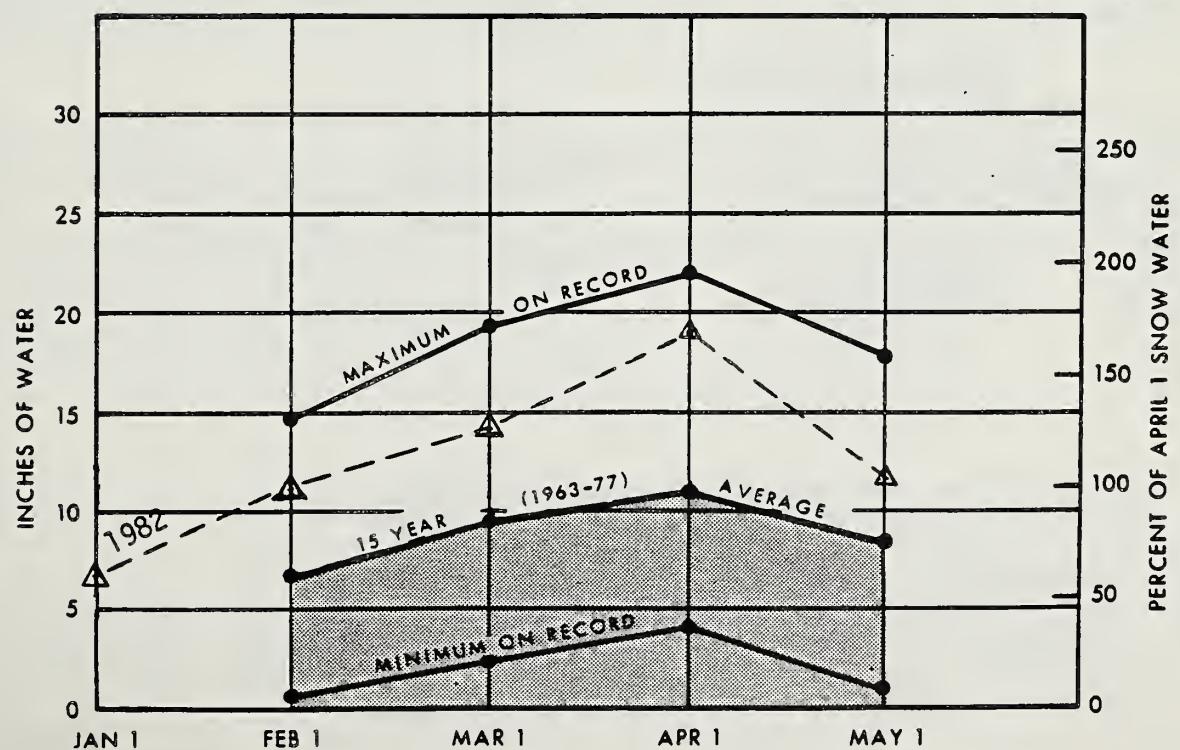
WINTER SNOWPACK
TAHOE, TRUCKEE, CARSON & WALKER BASINS
CALIFORNIA - NEVADA
1982

Data based on 9 long term Snow Courses



WINTER SNOWPACK
UPPER HUMBOLDT & SNAKE BASINS
NEVADA
1982

Data based on 13 selected Snow Courses



STREAMFLOW FORECASTS (Thousand Acre Feet) as of: May 1, 1982

Forecasts are based on snow-water presently stored in the mountain watersheds and the assumption that precipitation will be near average throughout the forecast period. Peak flow forecasts indicate the most probable range for the maximum average 24-hour flow. All averages are for 1963-77 period.

FORECAST POINT	Forecast Period	Forecast This Year	This Year as Percent of Average	Average +
TRUCKEE RIVER				
Little Truckee River above Boca, CA.	April-July	165	190	87
Truckee River at Farad, CA. ^{1/}	April-July	515	189	273
Lake Tahoe Rise in Feet (assuming gates closed)	April 1 to high	2.8	197	1.42
CARSON RIVER				
East Carson near Gardnerville, NV.	April-July	320	176	187
West Carson at Woodfords, CA.	April-July	92	174	53
Carson River near Carson City, NV.	April-July	350	191	183
Carson River near Fort Churchill, NV.	April-July	310	186	167
WALKER RIVER				
East Walker near Bridgeport, CA. ^{2/}	April-Aug.	115	174	69
W. Walker below L.Walker nr Coleville, CA.	April-July	245	171	146
SNAKE RIVER				
Owyhee River near Owyhee, NV. ^{3/}	April-July	124	170	80
Owyhee River near Gold Creek, NV. ^{3/}	April-July	39	180	22
Salmon Falls Creek nr San Jacinto, NV.	May-Sept.	90	143	95
HUMBOLDT RIVER				
Lamoille Creek near Lamoille, NV.	April-July	40	143	28
S. Fork Humboldt above Dixie Creek, NV.	April-July	102	138	73
Marys River above Hot Springs, NV.	April-July	60	162	37
N. Fork Humboldt at Devils Gate, NV.	April-July	52	149	35
Humboldt River at Palisade, NV.	April-July	320	145	221
Humboldt River at Comus, NV.	April-July	250	140	175
Martin Creek near Paradise, NV.	April-July	25	167	15
NORTHERN GREAT BASIN				
Bidwell Creek near Fort Bidwell, CA.	April-July	18	150	12
Mill Creek near Cedarville, CA.	April-July	6.2	151	4.1
Deep Creek near Cedarville, CA.	April-July	5.4	150	3.6
Eagle Creek near Eagleville, CA.	April-July	6.5	151	4.3
COLORADO RIVER				
Virgin River at Littlefield, AZ.	May-June	17.7	61	29

NOTE: Streamflow forecasts which appear in this bulletin are coordinated activity of the National Weather Service and the Soil Conservation Service.

^{1/} Observed flow plus change in storage in Boca, Stampede and Prosser Reservoirs, Donner, Independence and Martis Creek Lakes, and minus the flow at Truckee River at Tahoe City, California.

^{2/} Observed flow plus change in storage in Bridgeport Reservoir.

^{3/} Observed flow plus change in storage in Wild Horse Reservoir.

+ 1963-1977 period.

RESERVOIR STORAGE (Thousand Acre Feet) AS OF May 1, 1982

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average+
Owyhee	Wild Horse	72	64	53	35
Lower Humboldt	Rye Patch	172	114	148	135
Colorado	Mohave	1,810	1,712	1,724	1,700
Colorado	Mead	26,159	22,681	22,691	17,200
Tahoe	Tahoe	732	628	393	513
Truckee	Boca	41	32	28	30
Truckee	Stampede**	220	199	142	129*
Truckee	Prosser***	30	11	12	12*
Carson	Lahontan	291	247	236	237
West Walker	Topaz	59	37	44	42
East Walker	Bridgeport	42	26	37	32

* Adjusted average.

** Storage began August 1, 1969.

*** Flood Control use allocation of 20,000 acre-feet between November 1 and April 10.

TOTAL RESERVOIR STORAGE (Thousand Acre Feet)

MONTH	This Year	Last Year	Average +
October 1	358	883	786
January 1	688	793	844
February 1	804	859	920
March 1	935	898	968
April 1	1,047	953	1,010
May 1	1,148	939	1,024

The above data developed from Wild Horse, Rye Patch, Tahoe, Boca, Lahontan, Topaz, and Bridgeport Reservoirs in 1,000 Acre-feet.

TOTAL USABLE CAPACITY

PEAK FLOWS (MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average +
East Fork Carson River nr. Gardnerville, NV.	2900-3400	1,865
Carson River near Carson City, NV.	3550-4050	2,098
Carson River near Fort Churchill, NV.	3325-3825	1,914
W. Walker R. below L. Walker R. nr Coleville, CA	2300-2800	1,589

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
East Carson River nr. Gardnerville, NV.	200	8/20	7/24
East Carson River nr. Gardnerville, NV.	500	7/28	6/28

+ 1963-1977 period.

SATELLITE SNOW COVER
TAHOE-TRUCKEE, CARSON AND WALKER BASINS
 April 27, 1982

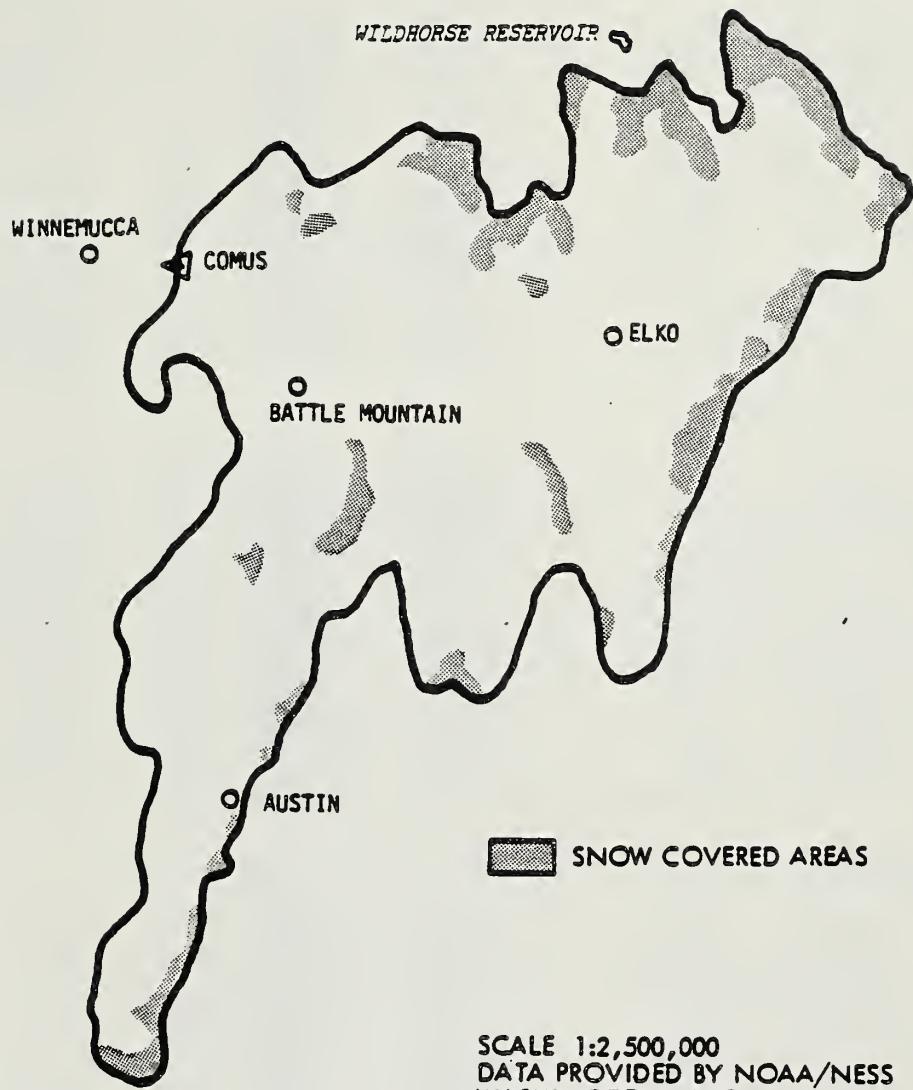


SCALE 1:2,000,000
 DATA PROVIDED BY NOAA/NESS
 WASHINGTON D.C.

<u>BASIN</u>	<u>THIS YEAR</u>	<u>PERCENT. SNOW COVER</u>	<u>LAST YEAR</u>	<u>PERCENT SNOW COVER</u>
TAHOE-TRUCKEE	January 31, 1982	48.0%	February 1, 1981	62.0%
	February 24, 1982	28.0%	February 22, 1981	26.0%
	March 24, 1982	27.0%	March 28, 1981	36.0%
	April 27, 1982	24.0%	April 28, 1981	10.0%
CARSON	January 31, 1982	48.0%	February 1, 1981	33.0%
	February 24, 1982	10.0%	February 22, 1981	9.0%
	March 24, 1982	12.0%	March 28, 1981	18.0%
	April 27, 1982	11.0%	April 28, 1981	5.0%
WALKER	January 31, 1982	43.0%	February 1, 1981	52.0%
	February 24, 1982	20.0%	February 22, 1981	21.0%
	March 24, 1982	17.0%	March 28, 1981	57.0%
	April 27, 1982	12.0%	April 28, 1981	7.0%

SATELLITE SNOW COVER
HUMBOLDT RIVER ABOVE COMUS, NEVADA

April 23, 1982



SCALE 1:2,500,000
DATA PROVIDED BY NOAA/NESS
WASHINGTON, D.C.

<u>THIS YEAR</u>	<u>PERCENT SNOW COVER</u>	<u>LAST YEAR</u>	<u>PERCENT SNOW COVER</u>
January 1, 1982	97.0%	December 26, 1980	4.0%
January 6, 1982	100.0%	January 6, 1981	6.0%
January 27, 1982	98.0%	February 1, 1981	89.0%
January 30, 1982	88.0%	February 4, 1981	78.0%
February 6, 1982	87.0%	February 7, 1981	74.0%
February 16, 1982	63.0%	February 10, 1981	53.0%
February 30, 1982	46.0%	February 22, 1981	13.0%
March 6, 1982	42.0%	March 8, 1981	23.0%
March 13, 1982	25.0%	March 9, 1981	11.0%
March 24, 1982	20.0%	March 29, 1981	40.0%
April 8, 1982	28.0%	April 5, 1981	25.0%
April 13, 1982	20.0%	April 12, 1981	7.0%
April 18, 1982	18.0%	April 23, 1981	9.0%
April 23, 1982	16.0%	April 28, 1981	3.0%

SNOW COURSE MEASUREMENTS

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (inches)	Water Content (inches)	Water Content (inches)	Last Year

LAKE TAHOE

Echo Peak (CA)	7,800	4/29/82	71	53.5	9.0	-----
Echo Summit (CA)	7,450	4/30/82	102	39.7	6.2	26.2
Fallen Leaf (CA)	6,240	4/27/82	0	0.0	-----	-----
Freel Bench (CA)	7,300	4/29/82	6	2.7	0.0	5.8*
Hagan's Meadow (CA)	8,000	4/29/82	33	14.8	0.0	12.3*
Heavenly Valley (CA)	8,800	4/27/82	92	40.6	11.8	24.2*
Marlette Lake	8,000	4/29/82	59	26.0	5.3	20.6*
Rubicon #2	7,500	4/29/82	92	46.3	9.4	-----
Upper Truckee (CA)	6,400	4/29/82	1	0.1	0.0	2.2*
Ward Creek #2 (CA)	7,000	4/30/82	117	55.7	12.5	38.8
Ward Creek #3 (CA)	6,750	4/29/82	98	50.0	12.0	37.9*

TRUCKEE RIVER

Big Meadows	8,300	4/29/82	71	31.3	-----	-----
Donner Summit (CA)	6,900	4/29/82	92	45.7	9.0	33.6*
Fordyce Lake (CA)b	6,500	4/28/82	94	47.4	14.4	38.1*
Furnace Flat (CA)b	6,700	4/28/82	108	60.6	23.2	45.5
Independence Camp (CA)	7,000	4/29/82	48	22.6	0.6	17.4*
Independence Creek (CA)	6,500	4/29/82	21	9.3	0.4	6.6*
Independence Lake (CA)	8,450	4/29/82	153	71.1	23.1	46.9*
Mount Rose	9,000	4/29/82	128	61.6	16.1	-----
Mount Rose Ski Area	8,850	4/20/82	162	76.4	19.3	38.8*
Squaw Valley #2 (CA)	7,500	4/29/82	155	77.7	23.9	51.7*
Squaw Valley Gold Coast (CA)	8,200	4/30/82	175	87.5**	27.3**	-----

CARSON RIVER

Blue Lakes (CA)	8,000	4/28/82	112	49.0	20.4	33.7
Carson Pass, Upper (CA)	8,600	4/25/82	118	58.1	15.4	33.1
Ebbetts Pass AM (CA)	8,700	AM Buried-----	-----	-----	20.5a	-----
Ebbetts Pass #2 (CA)	8,700	4/27/82	135	67.5	21.3	-----
Fish Valley, Upper (CA)	8,050	4/27/82	6	3.1	-----	-----
Monitor Pass AM (CA)	8,350	4/27/82	48	21.0	1.5a	-----
Poison Flat #2 (CA)	7,900	4/27/82	37	16.7	1.4	-----
Spratt Creek (CA)	6,100	4/27/82	0	0.0	-----	-----
Wet Meadows Lake AM (CA)	8,050	4/27/82	93	43.7	14.0a	-----
Wet Meadows #2 (CA)	8,050	4/27/82	124	57.8	21.3	-----

WALKER RIVER

Center Mountain (CA)	9,400	4/27/82	174	85.3	-----	-----
Leavitt Lake (CA)	9,400	4/27/82	183	89.4	30.7	-----
Leavitt Meadows (CA)	7,200	4/27/82	7	3.6	0.0	-----
Lobdell Lake (CA)	9,200	4/27/82	58	22.9	5.6**	-----
Sawmill Ridge (CA)	8,750	4/27/82	57	75.4	-----	-----
Sonora Pass (CA)	8,800	4/27/82	80	37.3	7.4	20.3
Sonora Pass Bridge (CA)	8,800	4/27/82	84	37.8	10.6	26.3
Virginia Lakes (CA)	9,500	4/27/82	51	22.6	6.2	15.1*
Virginia Lakes Ridge (CA)	9,200	4/27/82	65	26.0	11.0	16.0*

+ 1963-1977 period.

SNOW COURSE MEASUREMENTS

DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	THIS YEAR		PAST RECORD	
			Water Content (inches)	Water Content (inches)	Last Year	Average +
<u>NORTHERN GREAT BASIN</u>						
Cedar Pass (CA)	7,100	5/03/82	30	13.6	2.1	15.2*
Disaster Peak	6,500	4/23/82	18	8.7	-----	-----
Dismal Swamp #2 (CA)	7,000	4/30/82	69	31.6**	-----	-----
<u>SNAKE RIVER</u>						
Bear Creek AM	7,800	4/27/82	61	27.5	9.0a	20.8a
Goat Creek	8,800	4/30/82	65	26.5	10.2	20.9
Pole Creek Ranger Station	8,300	4/30/82	66	29.1	13.7	23.6
Seventy Six Creek	7,100	4/27/82	36	16.0	0.0**	3.2
Seventy Six Creek AM	7,100	4/27/82	33	14.2	0.0a	3.2a
<u>OWYHEE RIVER</u>						
Big Bend	6,700	4/27/82	20	8.3	0.0	2.4
Fawn Creek #2	7,050	4/27/82	48	20.9	8.3**	-----
Gold Creek	6,600	4/27/82	0	0.0	0.0	1.0
Jack Creek, Lower	7,250	4/27/82	0	0.0	0.0	0.8
Jack Creek, Upper	7,250	4/27/82	16	6.6	0.0	4.7
Jack Creek #2, Upper	7,250	4/27/82	54	22.4	4.3	-----
Jacks Peak	8,420	4/27/82	95	39.4	10.1	26.8
Laurel Draw	6,700	4/27/82	13	5.6	0.0**	-----
Taylor Canyon	6,200	4/27/82	0	0.0	0.0	0.5
<u>UPPER HUMBOLDT</u>						
Corral Canyon	8,500	4/27/82	50	21.6	8.8**	-----
Dorsey Basin	8,100	4/27/82	39	18.6	1.1**	-----
Fry Canyon	6,700	4/27/82	12	4.9	0.0	1.5
Green Mountain	8,000	4/27/82	34	15.1	0.0**	-----
Lamoille #1	7,100	4/27/82	16	6.1	0.0	4.4*
Lamoille #3	7,700	4/27/82	25	11.1	0.0	8.3*
Lamoille #5	8,700	4/27/82	101	49.6	10.5	30.0*
Rodeo Flat	6,800	4/27/82	7	2.9	0.0	1.5
Smith Creek	7,700	4/27/82	31	13.0	-----	-----
Tremewan Ranch	5,700	4/27/82	0	0.0	0.0	-----
<u>LOWER HUMBOLDT RIVER</u>						
Big Creek Summit	8,700	4/30/82	34**	15.0**	0.6**	-----
Buckskin, Lower	6,700	4/23/82	15	7.4	0.0**	-----
Buckskin, Upper	8,200	4/23/82	26	9.9	-----	-----
Granite Peak	7,800	4/23/82	65	26.8	7.2**	-----
Lamance Creek	6,000	4/23/82	12	4.8	0.0	-----
Martin Creek	6,700	4/23/82	17	7.4	-----	-----
<u>EASTERN NEVADA</u>						
Berry Creek	9,100	4/30/82	36**	15.7**	10.5**	16.3*
Ward Mountain #2	7,400	4/30/82	33**	14.6**	4.4**	-----

+ 1963-1977 period.

SNOW COURSE MEASUREMENTS

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	Last Year
NAME	Elevation					Average +

DESERT RESEARCH INSTITUTE MEASUREMENT: TAHOE-TRUCKEE BASIN

Alder Creek	6,960	5/02/82	80	40.8	6.7	-----
Apollo Way	7,300	5/01/82	0	0.0	0.0	-----
Bennett Flat	6,200	5/02/82	11	6.4	0.0	-----
Davis Creek	5,160	5/01/82	0	0.0	0.0	-----
Evergreen Hills Road	5,700	5/01/82	0	0.0	0.0	-----
Galena Creek	7,440	5/01/82	49	21.2	0.0	-----
Henness Pass Junction	6,410	5/02/82	20	9.7	0.0	-----
Hobart Mills	5,850	5/02/82	0	0.0	0.0	-----
Incline Lake	8,000	5/01/82	60	28.9	0.0	-----
Jones Creek	6,000	5/01/82	0	0.0	0.0	-----
Mount Rose Resort	8,280	5/01/82	108	53.5	5.1	-----
North Star Fire Department	6,320	5/01/82	0	0.0	0.0	-----
Reindeer Lodge	7,060	5/01/82	0	0.0	0.0	-----
RNR Test Site	6,400	5/01/82	0	0.0	0.0	-----
Sky Tavern	7,620	5/01/82	29	14.3	0.0	-----
Spooner Summit	7,620	5/01/82	0	0.0	0.0	-----
Squaw Valley Fire Department	6,240	5/01/82	19	10.2	0.0	-----
Tahoe City	6,240	5/01/82	5	3.4	0.0	-----
Tahoe Meadows	8,540	5/01/82	142	69.7	18.1	-----
Tamarack Lake	8,820	5/01/82	122	64.4	14.1	-----
Third and Incline Creeks	6,235	5/01/82	0	0.0	0.0	-----
Thunder Cliff	6,200	5/01/82	14	7.4	0.0	-----
Truckee Airport	5,900	5/01/82	0	0.0	0.0	-----
Whites Creek	5,670	5/01/82	0	0.0	0.0	-----

a Aerial Marker

b Located on adjacent basin

c Estimated

* Less than 15-year record

** SNOTEL provisional, depth estimated

NS Not scheduled

NOTE: All averages based on 1963-77, 15-year period. Forecast period is April 1 through July 31 unless otherwise noted.

+ 1963-1977 period.

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
		Date of Reading	Month's Precipitation	Last Year	This Year	Last Year	1980
<u>TAHOE-TRUCKEE</u>							
Big Meadows	8,300	5/01/82	3.8	-----	48.7e	-----	-----
Echo Peak (CA)	7,800	5/01/82	10.2	2.1	88.1e	28.0	-----
Fallen Leaf (CA)	6,240	5/01/82	5.7	0.6	55.7	17.0	39.9
Hagan's Meadow (CA)	8,000	5/01/82	5.2	1.6	48.1	17.2	38.9
Heavenly Valley (CA)	8,800	5/01/82	4.5	2.7	45.4	20.1	35.6
Independence Camp (CA)	7,000	5/01/82	8.0	1.9	65.0	21.2	41.0
Independence Creek (CA)	6,500	5/01/82	7.2	1.2	61.1	20.3	30.7
Independence Lake (CA)	8,450	5/01/82	13.7	2.6	76.2	27.5	-----
Marlette Lake	8,000	5/01/82	3.9	1.6	49.6	20.0	38.0
Mt. Rose	9,000	5/01/82	8.8	1.1	49.8	17.5	37.0
Mt. Rose Ski Area	8,850	5/01/82	9.8	2.7	87.3	29.6	73.1
Rubicon #2 (CA)	7,500	5/01/82	8.6	2.3	72.0	24.8	48.6
Squaw Valley Gold Coast (CA)	7,800	5/01/82	14.0e	2.1	120.9	36.4	-----
Tahoe City Cross (CA)	6,750	5/01/82	7.0	1.5	64.7	21.8	46.1
Truckee #2 (CA)	6,400	5/01/82	6.0	0.5	59.2	17.2	37.7
Ward Creek #3 (CA)	6,750	5/01/82	11.0	1.2	118.5	37.2	75.8
<u>CARSON-WALKER</u>							
Blue Lakes (CA)	8,000	5/01/82	7.4	2.5	69.4	27.7	-----
Ebbets Pass #2 (CA)	8,700	5/01/82	10.6	4.9	79.5	35.7	60.5
Leavitt Meadows (CA)	7,200	5/01/82	4.9	1.6	48.3	20.2	37.3
Lobdell Lake (CA)	9,200	5/01/82	3.0	0.7	30.8	15.7	26.9
Pine Nut Creek (CA)	6,600	5/01/82	2.4	1.1	13.3	7.7	-----
Poison Flat (CA)	7,900	5/01/82	5.9	1.5	49.3	18.2	36.4
Sonora Pass Bridge (CA)	8,800	5/01/82	6.5	2.1	56.5	21.6	42.4
Spratt Creek (CA)	6,080	5/01/82	3.2	1.8	49.5	19.8	-----
Virginia Lakes Ridge (CA)	9,200	5/01/82	5.1	1.7	36.1	18.8	33.1
Wet Meadows #2 (CA)	8,050	5/01/82	8.0	3.1	73.8e	31.9	55.1
<u>HUMBOLDT</u>							
Big Creek Summit	8,700	5/01/82	1.2	1.5	18.2	13.1	13.1
Buckskin, Lower	6,700	5/01/82	2.6	1.1	26.4	14.1	20.0
Corral Canyon	8,500	5/01/82	2.3	1.6	26.2	15.0	20.7
Dorsey Basin	8,100	5/01/82	1.8	2.9	30.4	16.6	22.6
Fry Canyon	6,700	4/27/82	2.2	2.4	27.0	11.4	-----
Granite Peak	7,800	5/01/82	3.3	1.1	50.5e	15.5	-----
Green Mountain	8,000	5/01/82	1.9	1.4	28.1	14.4	20.0
Lamance Creek	6,000	5/01/82	2.5	1.2	31.1	13.2	24.8
Lamoille #3	7,700	5/01/82	1.9	1.7	28.5	14.2	21.0
Martin Creek	6,700	-----	-----	-----	-----	-----	23.1
Rodeo Flat	6,800	4/27/82	2.2	-----	23.2	-----	13.4
Trout Creek, Lower	6,900	-----	-----	-----	-----	-----	16.3
<u>SNAKE-OWYHEE</u>							
Bear Creek	7,800	5/01/82	2.6	3.2	34.3	18.1	25.7
Big Bend	6,700	5/01/82	1.3	1.6	18.7	9.6	13.1
Fawn Creek #2	7,000	5/01/82	3.4	3.7	34.4	19.8	25.5
Goat Creek	8,800	5/01/82	2.0	3.5	33.8	17.4	-----
Jack Creek #2, Upper	7,250	5/01/82	2.3	1.7	33.8e	16.1	20.2
Jacks Peak	8,420	5/01/82	2.8	-----	42.1	-----	26.6
Laurel Draw	6,700	5/01/82	2.4	1.9	28.3	13.8	20.0
Pole Creek Ranger Station	8,330	5/01/82	1.2	2.3	19.9	10.0	-----
Seventy Six Creek	7,100	5/01/82	1.3	2.1	21.8	10.6	15.8
Taylor Canyon	6,200	5/01/82	0.8	0.8	12.2	5.1	8.2
<u>EASTERN NEVADA</u>							
Berry Creek	9,100	5/01/82	2.0	2.7	23.6	14.9	36.8
Hole-in-Mountain	7,900	5/01/82	4.8	-----	41.8	-----	-----
Ward Mountain	8,900	5/01/82	1.9	2.2	24.5	14.7	-----
<u>NORTHERN GREAT BASIN</u>							
Cedar Pass (CA)	7,100	5/01/82	2.9	1.7	37.8	20.9	31.9
Disaster Peak	6,500	5/01/82	0.9	0.6	24.6	10.7	-----
Dismal Swamp #2 (CA)	7,050	5/01/82	6.3	1.9	58.9	29.1	-----
All Data SNOTEL Provisional							

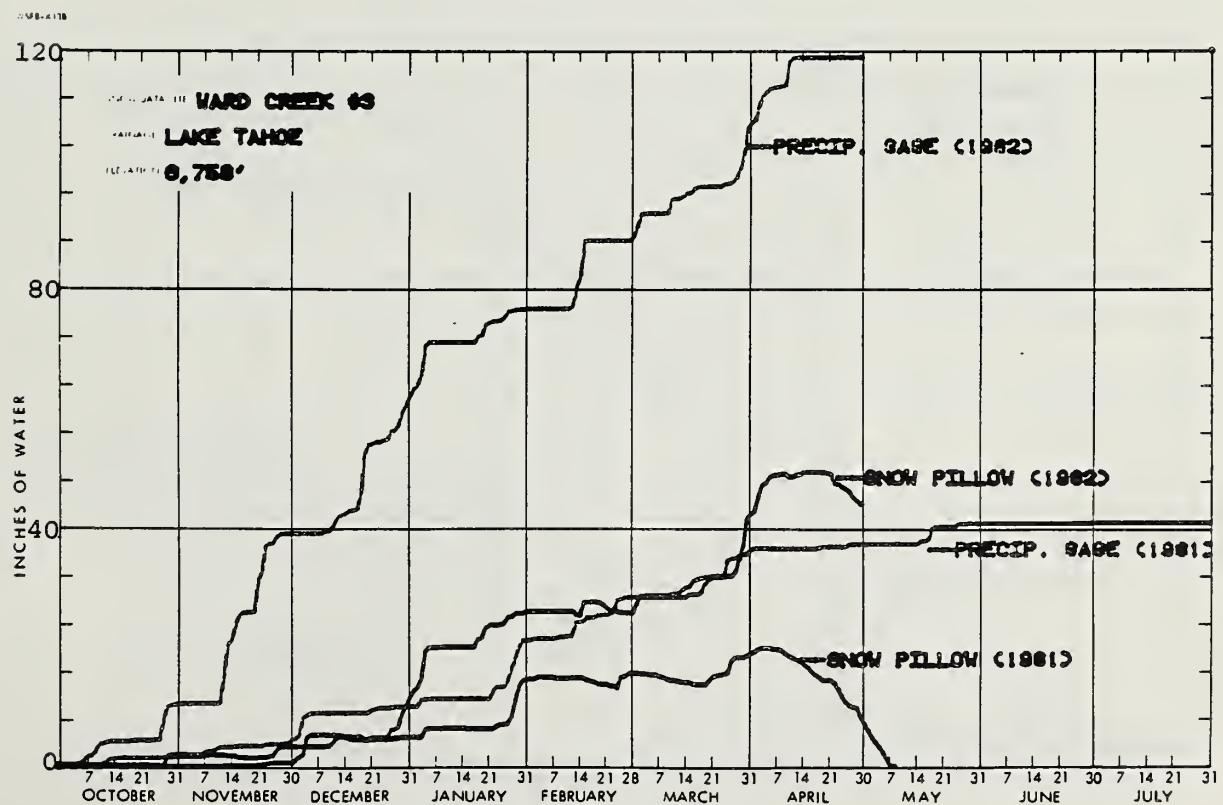
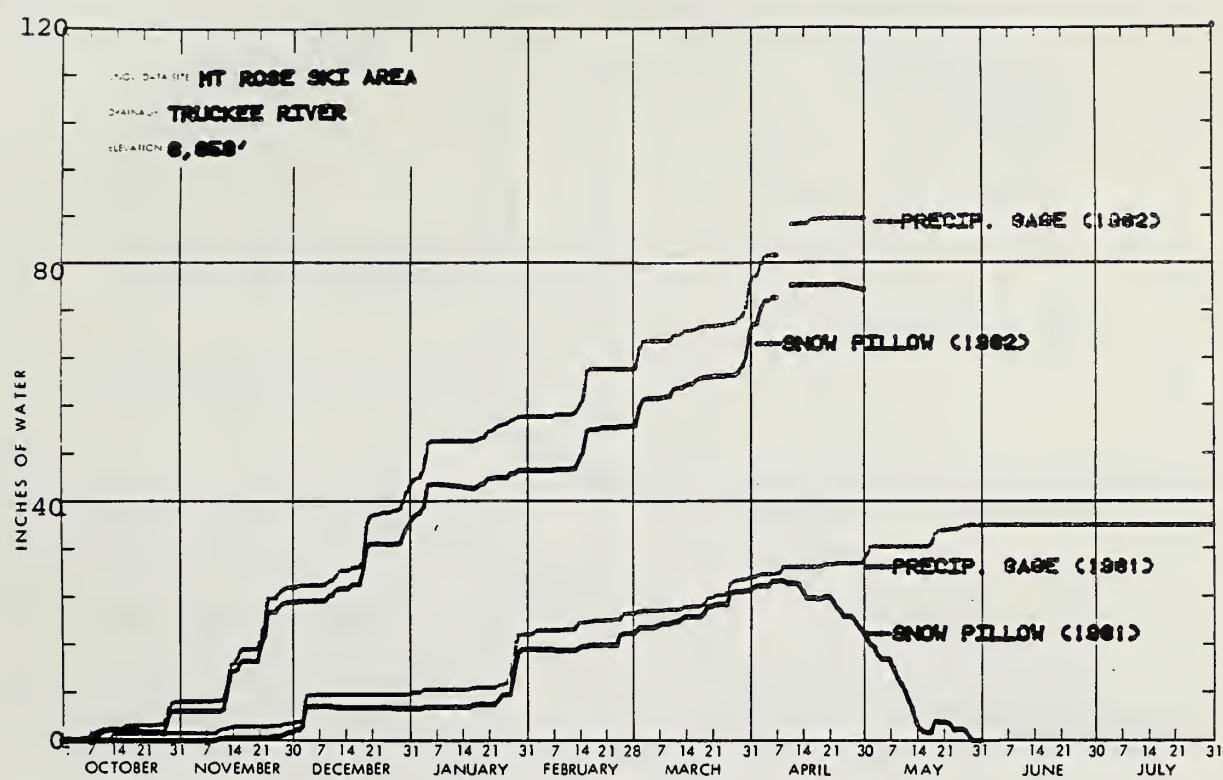
PRECIPITATION (Inches) NATIONAL WEATHER SERVICE RENO, NEVADA - APRIL 1982

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION					
		Month's Precip.	Last Year	*Normal	This Year	Last Year	*Normal
<u>TRUCKEE-TAHOE</u>							
Boca	5,575	2.97	.77	1.56	34.63	11.57	19.13
Glenbrook	6,350	2.05	1.26	1.16	29.00	10.79	15.68
Incline Village	6,550	3.13	.81	1.29	39.00	12.42	19.23
Reno	4,404	.34	.21	.47	6.91	2.83	5.43
Sierraville	4,975	5.14	.46	1.70	47.62	13.04	24.34
Tahoe City	6,230	6.71	.74	2.33	61.21	18.52	30.08
Truckee Ranger Station	5,995	5.93	1.04	2.45	51.63	16.59	29.58
<u>CARSON-WALKER</u>							
Bridgeport Ranger Station	6,560	1.55	.02	.46	8.55	7.13	9.39
Carson City	4,651	1.41	.36	.54	14.18	5.36	9.68
Fallon Experiment Station	3,965	.05	.47	.33	2.91	2.17	2.92
Hawthorne	4,215	.66	1.25	.51	2.06	4.17	2.70
Minden	4,720	1.58	.64	.47	9.45	3.63	6.64
Twin Lakes	7,829	9.64	2.80	4.64	68.67	27.26	45.22
Woodfords	5,971	3.05	.76	1.25	30.80	10.23	17.74
Yerington	4,375	.32	.82	.34	3.44	2.86	3.37
<u>HUMBOLDT</u>							
Austin	6,605	.87	.66	1.47	9.80	7.65	7.73
Battle Mountain	4,530	.30	.03	.76	2.38	3.49	4.71
Deeth	5,338	.44	1.59	.93	10.10	4.61	5.82
Elko	5,075	.50	.75	.82	8.33	3.94	6.38
Emigrant Pass	5,755	.38	.30	1.08	9.13	4.68	8.22
Jiggs	5,760	.66	.63	1.35	7.76	5.37	7.41
Lamoille	5,800	1.21	.97	2.53	11.07	7.10	12.36
Lovelock FAA	3,900	.30	.36	.36	4.19	1.86	2.96
North Fork	6,600		1.32	.86	*	4.93	6.02
Paradise Valley	4,675	.12	.21	.59	11.36	3.86	6.74
Wells	5,650	1.30	1.30	.94	10.10	3.71	6.66
Winnemucca	4,301	.29	.19	.73	6.24	3.15	5.78
<u>SNAKE-OWYHEE</u>							
Contact	5,365	.53	2.03	.64	7.83	3.99	4.65
Mountain City	5,620	.94	.80	*	9.73	5.38	*
Owyhee	6,491	.78	1.94	1.50	10.33	7.97	9.40
Tuscarora	6,170	1.09	.23	1.36	15.35	5.40	10.00
<u>EASTERN NEVADA</u>							
Arthur	6,280	.97	.96	1.33	14.99	6.01	10.01
Ely	6,253	.72	1.10	1.00	8.26	5.39	5.06
Montello	4,880	.27	.39	.54	5.30	1.67	3.54
Pequop	6,030	.90	.52	*	11.70	3.72	*
Ruby Lake	6,012	.79	.42	1.17	12.52	4.24	3.57
<u>NORTHERN GREAT BASIN</u>							
Alturas Ranger Station	4,400	.45	.79	1.00	10.68	4.88	9.41
Cedarville	4,670	.78	.36	.97	14.66	6.95	11.01
Ft. Bidwell	4,498	1.28	.56	1.04	18.91	10.87	12.25
Orovada	4,310	.50	.61	1.12	8.73	5.06	7.47
Susanville	4,148	1.78	.25	.73	18.07	6.94	12.25
<u>CENTRAL GREAT BASIN</u>							
Tonopah	5,426	.26	.40	.32	3.73	2.47	2.19
<u>LOWER COLORADO RIVER</u>							
Caliente	4,402	.25	.85	.84	1.85	5.38	5.61
Las Vegas	2,162	.01	.02	.27	1.93	1.80	2.37
Pioche	6,165	.61	1.53	1.34	7.23	4.71	8.95
Bishop	4,118	1.62	.68	.41	5.07	3.48	4.99

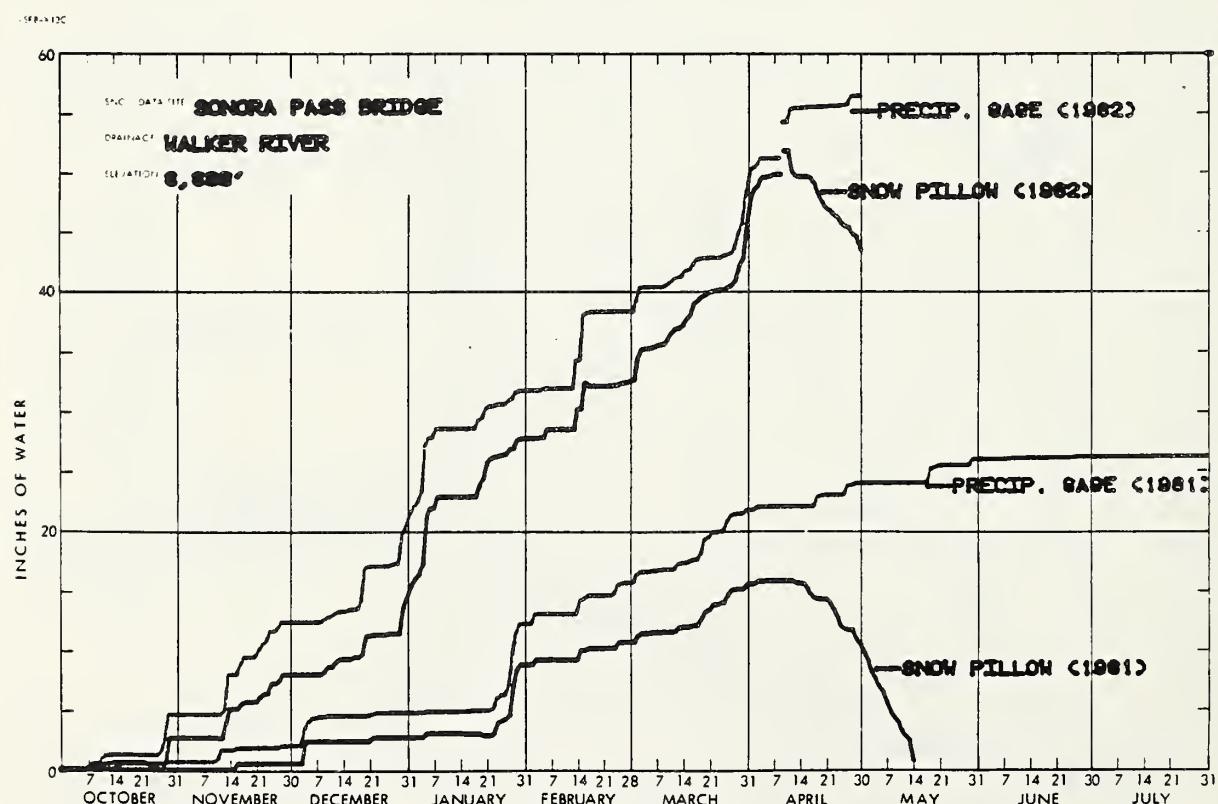
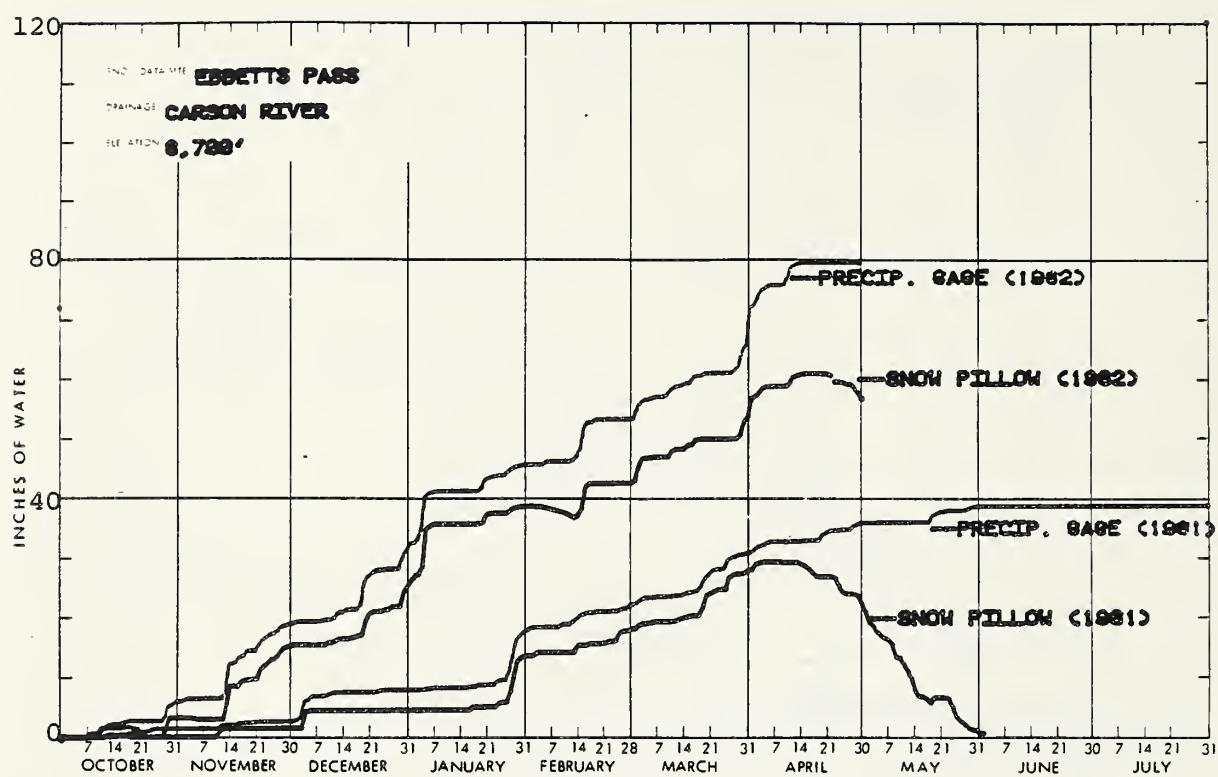
* Not Available
T Trace

Normals are for 30 year period of 1941-1970.

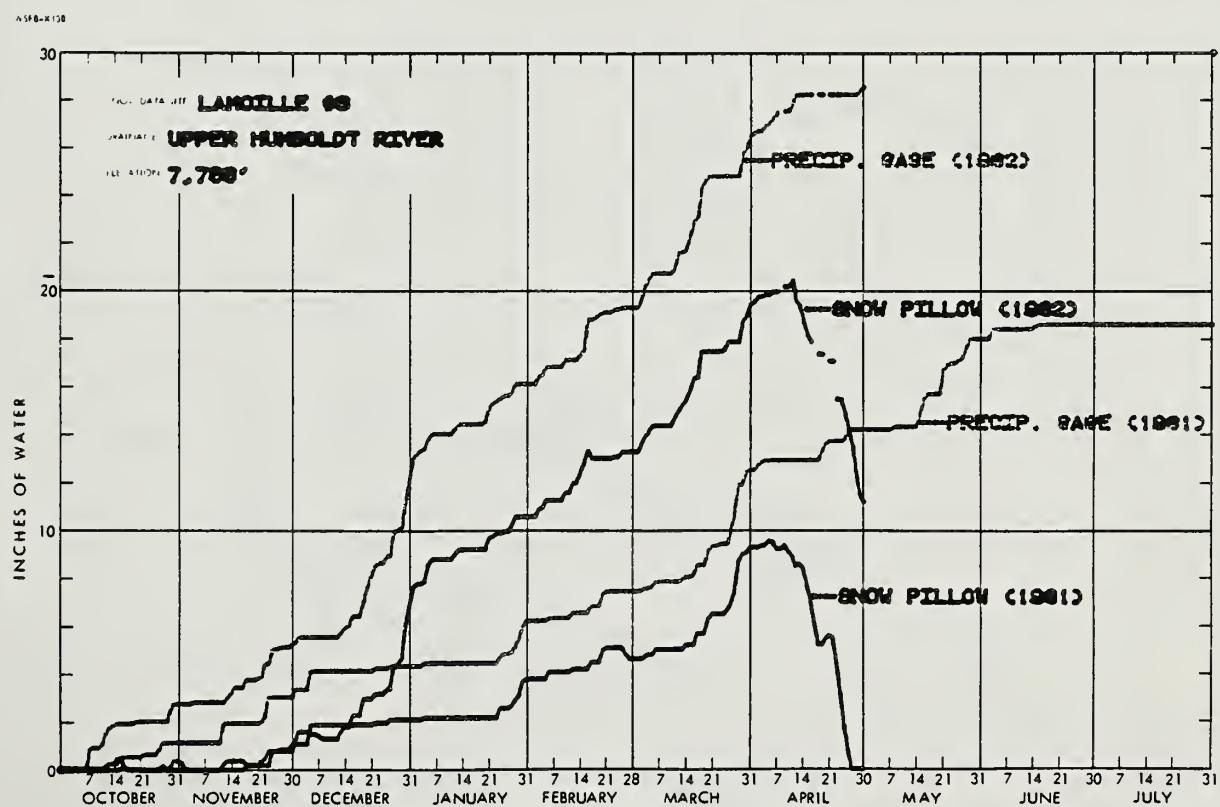
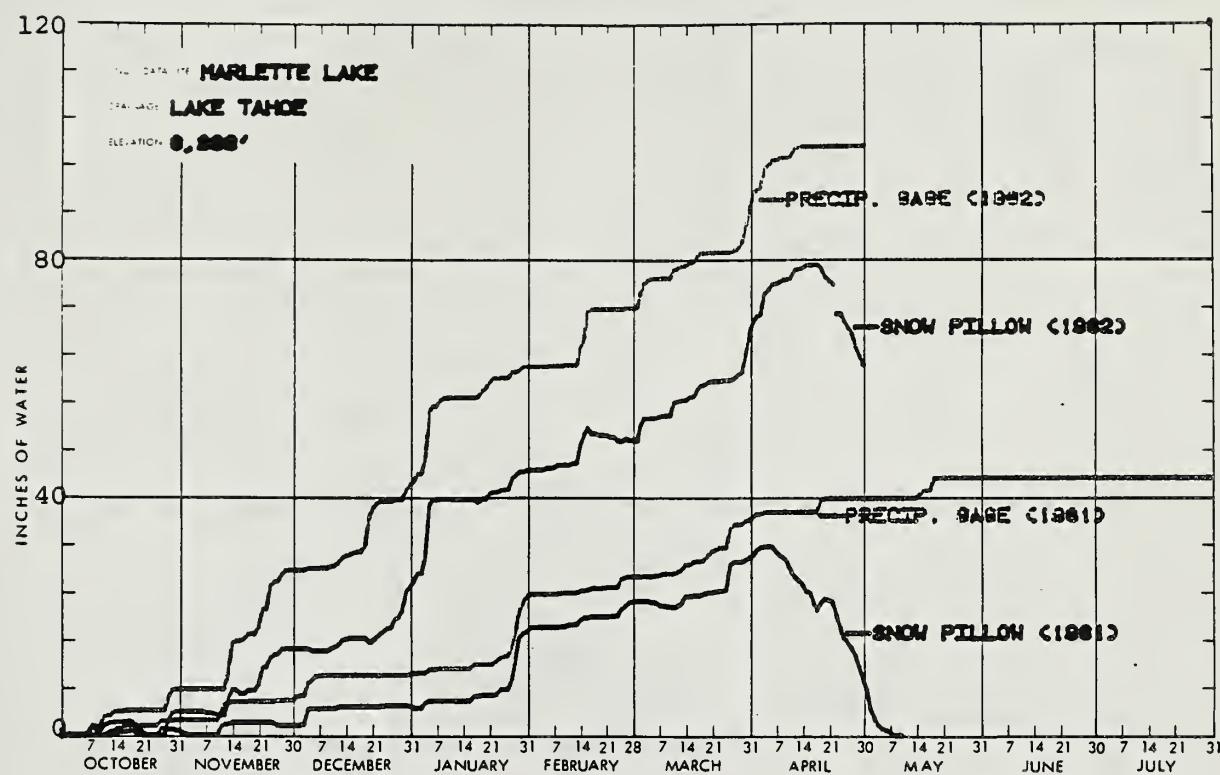
SNOWMEASUREMENTS



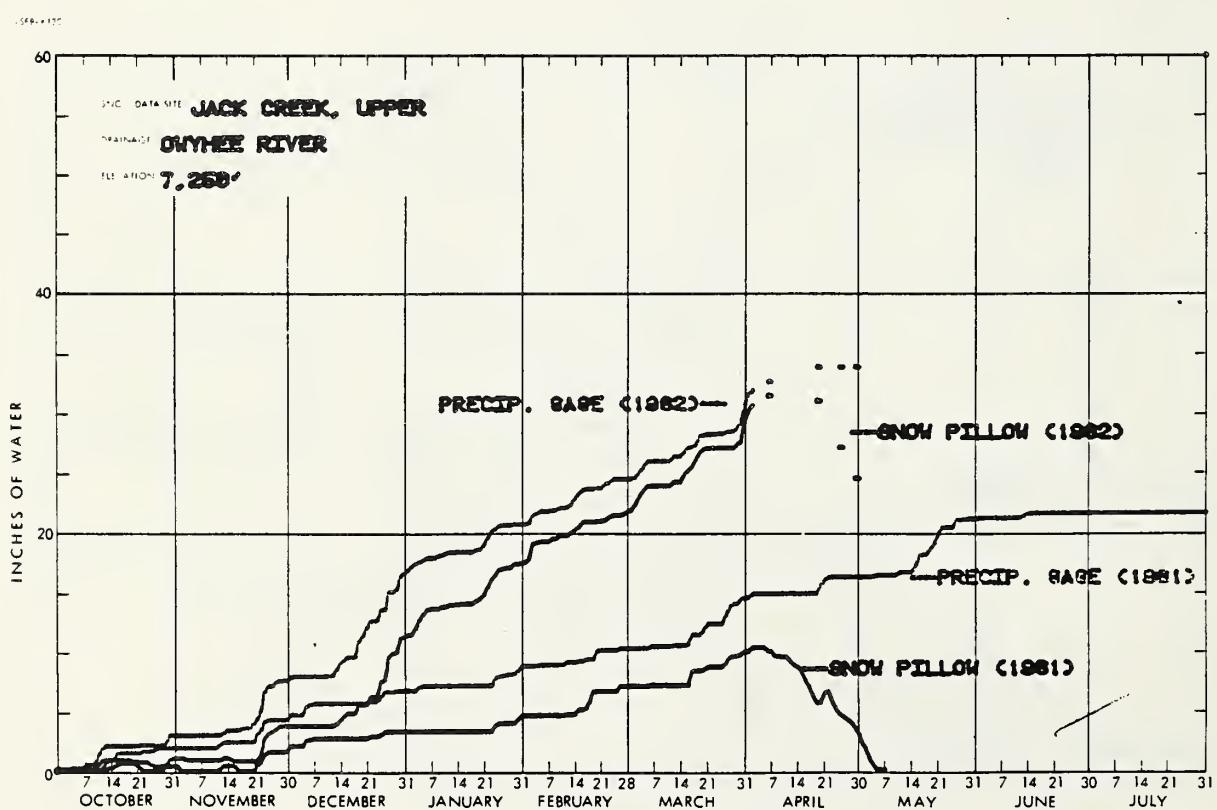
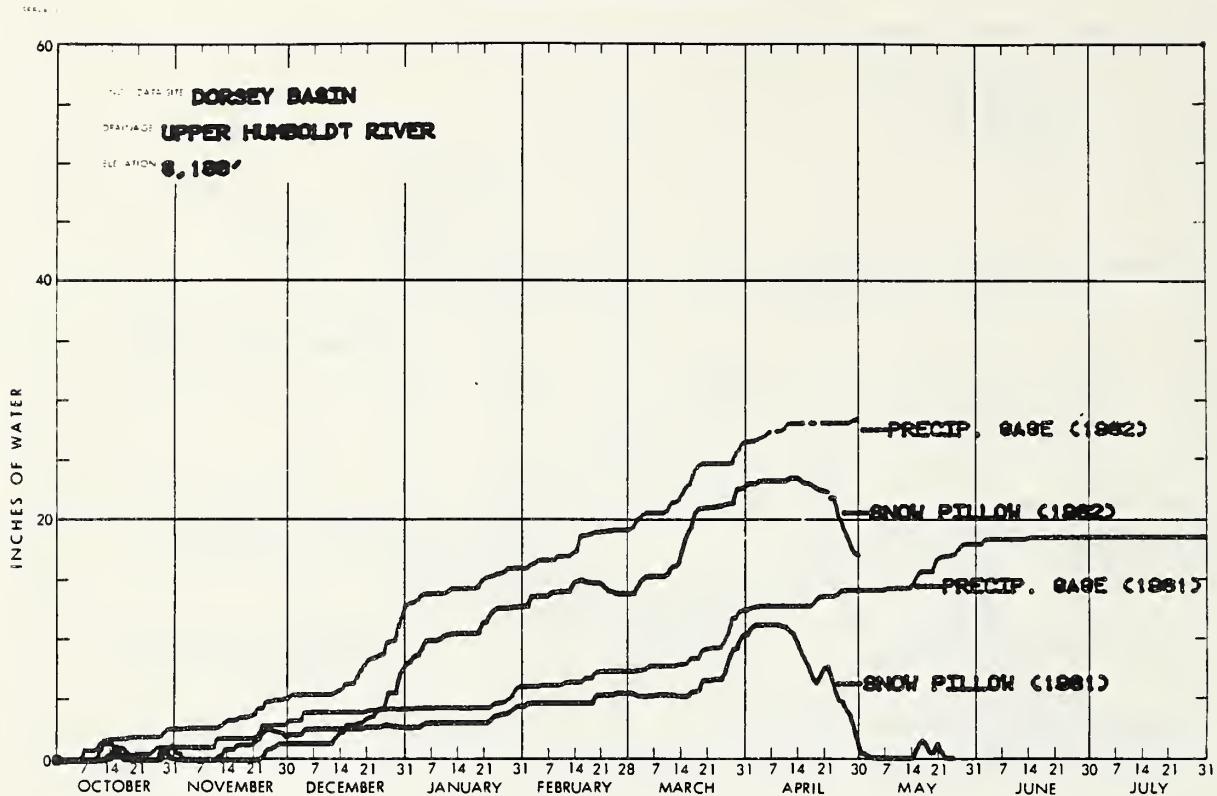
SNOTEL MEASUREMENTS



SNOTEL MEASUREMENTS



SNOW MEASUREMENTS



AGENCIES COOPERATING IN COLLECTING DATA CONTAINED IN THIS BULLETIN

FEDERAL

Agricultural Research Service
Bureau of Reclamation
Fish and Wildlife Service
Forest Service
Geological Survey
Soil Conservation Service
U. S. District Court - Federal Water Master
NOAA, National Weather Service

STATE

California Cooperative Snow Surveys
California Department of Parks and Recreation
California Department of Water Resources
Colorado River Commission of Nevada
Idaho Cooperative Snow Surveys
Nevada Association of Conservation Districts
Nevada Department of Conservation & Natural Resources
Division of Water Resources
Nevada State Forester
Oregon Cooperative Snow Surveys
University of Nevada, Desert Research Institute
Utah Cooperative Snow Surveys
White Mountain Research Station, Univ. of California

PRIVATE

Amalgamated Sugar Company
Kennebott Copper Corporation
Nevada Irrigation District
Owyhee Project North Board of Control
Owyhee Project South Board of Control
Pacific Gas and Electric Company
Pershing County Water Conservation District
Sierra Pacific Power Company
Truckee - Carson Irrigation District
Walker River Irrigation District
Washoe County Water Conservancy District

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